| Inde | ex of C | laims |  |
|------|---------|-------|--|
|      |         |       |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/670,090              | KIM ET AL.                              |
| Examiner                | Art Unit                                |
| David Buttner           | 1712                                    |

| 1  | Rejected |
|----|----------|
| II | Allowed  |

| <b>1</b> | (Through numeral)<br>Cancelled |
|----------|--------------------------------|
| ÷        | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

|       |   | <u> </u>     | <u> </u>   |  |  |              | J            |          | L            |                      |
|-------|---|--------------|--|--|--|--------------|--------------|----------|--------------|----------------------|
|       |   |              |  |  |  |              |              |          |              |                      |
| Cla   | aim   |              |  |  | [  | Date         | е            |          |              |                      |
|       |   | र्ड          |  |  |  |              |              |          |              |                      |
| a     | Original                                      | 12           |  |  |  |              |              |          |              | ll                   |
| Final | <u>ig</u> ,                                   | (X)          | <b>\</b>   |  |  |              |              |          |              | ll                   |
|       | Ō   | 8            |  |  |  |              |              |          |              | ll                   |
|       |   | 10           | <u> </u>   | _  | <u> </u>   | <u> </u>     | _            |          |              | ┞─┤                  |
|       | 1   |              | <u> </u>   |  | <u> </u>   |              |              |          |              |                      |
|       | 2   |              |  |  |  |              |              |          |              | lacksquare           |
|       | R<br>A<br>E                                   |              |  |  |  |              |              |          |              |                      |
|       | A   |              |  |  |  |              |              |          |              |                      |
|       | 6   |              |  |  |  |              |              |          |              | [ ]                  |
|       | 6   |              |  | •  |  |              |              |          |              |                      |
|       | 1   |              |  |  |  |              |              |          |              |                      |
|       | 18  |              | $\vdash$   | -  |  |              | _            | -        |              | Н                    |
|       | 8   | -            | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     |              | $\vdash$ |              | <del>  </del>        |
|       |   |              | <del> </del>                                     | _  | ┝  | $\vdash$     |              |          | $\vdash$     | $\vdash\vdash\vdash$ |
|       | 10  | <u>-</u>     |  | <del> </del>                                     |  | <u> </u>     | _            | <u> </u> | $\vdash$     | Н                    |
|       | 11  |              | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>     |              |          | _            | Щ                    |
|       | 12/13<br>14<br>15/19                          |              | <u> </u>   |  | <u> </u>   |              |              |          |              | Ш                    |
|       | 13  |              |  |  |  |              |              |          |              |                      |
|       | 14  |              |  |  |  |              |              |          |              |                      |
|       | 15  |              |  |  |  |              |              |          |              |                      |
|       | 18  |              |  |  |  |              |              |          |              |                      |
|       | 17  | 1            | _  | <del>                                     </del> | <del>                                     </del> |              | _            | $\vdash$ | $\vdash$     | $\Box$               |
|       | 18  | .7           | -  |  | ├─   | <del> </del> |              | $\vdash$ | $\vdash$     | H                    |
|       | 10  | 1            |  |  | -  | $\vdash$     | $\vdash$     | <u> </u> | $\vdash$     | $\vdash \vdash$      |
|       | 19  | V            | <u></u>  |  |  |              |              | <u> </u> | ┝            | Н                    |
|       | 20  | V            |  | <u> </u>   |  |              |              | ļ        | _            | Ш                    |
|       | 21  | <b>V</b>     |  | _  |  |              |              |          |              |                      |
|       | 22  | /            |  |  |  |              |              |          |              | <u> </u>             |
|       | 23  | 2/           |  |  |  |              |              |          | <u> </u>     |                      |
|       | 24  | 5/           |  |  |  |              |              |          |              |                      |
|       | 25  | 1            |  |  |  |              |              |          |              |                      |
|       | 26  | 1            |  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ |              |                      |
|       | 27  | V            |  | -  | $\vdash$   | $\vdash$     |              |          |              | <del>  -  </del>     |
|       | 28  |              | <del>                                     </del> | <del>                                     </del> |  |              |              |          | _            |                      |
|       | 29  | V            | _  |  | <del> </del>                                     |              |              |          | -            | <del></del>          |
|       |   | 1/           |  |  | <del> </del>                                     | -            | _            | -        | _            | $\vdash$             |
|       | 30  |              | ļ  | <u> </u>   | <u> </u>   |              |              | Ŀ        | _            | $\vdash$             |
|       | 31  | 1            |  | _  | _  |              |              |          | _            | Щ                    |
|       | 31<br>32                                      |              | <u> </u>   |  | <u> </u>   |              |              |          |              | Ш                    |
|       | 33⁄   | <u> </u>     |  |  |  |              |              |          |              |                      |
|       | 34  |              |  |  |  |              |              |          |              |                      |
|       | 35  |              |  |  |  |              |              |          |              |                      |
|       | 36  |              |  |  |  |              |              |          |              |                      |
|       | 37/   | l ·          | $\Box$   |  | $\vdash$   |              |              |          |              | М                    |
|       | 33/<br>34/<br>35/<br>36/<br>37/<br>38/<br>38/ |              |  | $\vdash$   | <del>                                     </del> |              | <del> </del> | $\vdash$ | $\vdash$     | $\vdash \vdash$      |
|       | 30  | -            | <b>-</b>   | <b></b>  |  | <del> </del> | -            |          | $\vdash$     | ${oldsymbol{dash}}$  |
|       | 40  |              | $\vdash$   | _  | <del> </del>                                     | —            | <del> </del> | <u> </u> | <del> </del> | $\vdash \vdash$      |
|       | 40  | -            | <u> </u>   |  |  | _            | <b> </b>     | <u> </u> | ļ            |                      |
|       | 41  | <u> </u>     |  |  | <u> </u>   | _            | <u> </u>     | <u> </u> | <u> </u>     | Щ                    |
|       | 42<br>43                                      |              |  |  | <u> </u>   |              |              |          | <u> </u>     | Ш                    |
|       | 43  |              |  |  |  |              |              |          |              |                      |
|       | 44  |              |  |  |  |              |              |          |              |                      |
|       | 45  |              |  |  |  |              |              |          |              |                      |
|       | 46  |              |  |  |  |              |              |          |              | $\vdash \vdash \mid$ |
|       | 47  | -            |  | _  |  |              | $\vdash$     |          |              | -                    |
|       | 48  |              |  | _  | $\vdash$   |              | $\vdash$     |          |              | $\vdash \vdash$      |
|       |   | <del> </del> |  |  | <del>                                     </del> |              | $\vdash$     |          | _            | $\vdash\vdash$       |
|       | 49  | <u> </u>     |  | <u> </u>   | _  |              | <u> </u>     |          |              | $\vdash$             |
|       |   |              |  |  |  |              |              |          |              |                      |

| Cla      | aim      |          |   |  | [        | Date   | 9 |          |              |          |
|----------|----------|----------|---|--|----------|--|---|----------|--------------|----------|
|          |          |          |   |  |          |  |   |          |              |          |
| =        | Original |          | ŀ   |  |          |  |   |          |              |          |
| Final    | gi       |          |   |  |          |  |   |          |              |          |
| <u> </u> | Ä        |          | •   |  | İ        |  |   |          |              |          |
|          |          |          | İ   |  |          | <b>.</b>   |   |          |              |          |
|          | 51       |          |   |  |          |  |   |          |              |          |
|          | 51<br>52 | $\vdash$ | $\vdash$  |  |          | _  |   |          |              |          |
|          | 52       | $\vdash$ | $\vdash$  |  |          | <del> </del>                                     |   |          | _            | _        |
|          | 53<br>54 |          | <u> </u>  |  | <u> </u> |  |   |          |              |          |
|          | 54       |          |   |  |          | <u> </u>   | L |          |              |          |
|          | 55       |          |   |  |          |  |   |          |              |          |
|          | 56       |          |   |  |          |  |   |          |              |          |
|          | 57       |          |   |  |          | $\vdash$   |   |          |              |          |
|          | 58       |          | $\vdash$  |  |          | _  |   |          |              |          |
|          |          |          | ┝   | ┝  |          |  |   |          |              | <u> </u> |
|          | 59       |          |   |  | _        | L  | _ |          |              |          |
|          | 60       |          |   |  | _        | _  |   |          |              |          |
|          | 61       |          |   |  |          |  |   |          |              |          |
|          | 62       |          |   |  |          |  |   |          |              |          |
|          | 63       |          |   |  |          | _  |   |          | _            |          |
|          | 64       | $\vdash$ | $\vdash$  | $\vdash$   |          |  |   |          |              | —        |
|          | 64       |          | <u> </u>  |  | <u> </u> |  |   |          | _            |          |
|          | 65       |          | _   |  |          | <u> </u>   | _ |          |              |          |
|          | 66       |          |   |  |          |  |   |          |              |          |
|          | 67       |          |   |  |          |  |   |          |              |          |
|          | 68       |          |   | _  |          |  |   | -        |              |          |
| $\vdash$ | 69       | $\vdash$ |   | <del>                                     </del> | $\vdash$ | -  |   | $\vdash$ |              | $\vdash$ |
|          |          | ┝        |   | <del> </del>                                     |          | <del>                                     </del> | - |          | -            | $\vdash$ |
|          | 70       |          | _   | ļ  | _        |  |   |          |              |          |
|          | 71       |          |   |  |          |  |   |          |              | L_       |
|          | 72       |          |   |  |          |  |   |          |              |          |
|          | 73       |          |   |  |          |  |   |          |              |          |
| -        | 74       |          |   |  |          | $\vdash$   |   |          |              | $\vdash$ |
|          |          |          | -   | -  | $\vdash$ | <del>                                     </del> | _ |          |              | $\vdash$ |
|          | 75       |          |   | _  | _        | <u> </u>   |   |          |              |          |
|          | 76       |          |   |  |          | <u> </u>   |   |          |              |          |
|          | 77       |          |   |  |          |  |   |          |              |          |
|          | 78       |          |   |  |          |  |   |          |              |          |
|          | 79       |          |   |  |          |  |   |          |              |          |
|          | 80       |          |   |  | $\vdash$ | $\vdash$   |   |          |              |          |
|          |          | $\vdash$ | $\vdash$  | $\vdash$   | $\vdash$ |  |   |          |              |          |
|          | 81       | _        |   |  |          | ļ  |   |          | <del> </del> |          |
|          | 82       |          |   |  | <u> </u> | <u> </u>   |   |          | _            |          |
|          | 83       |          |   | <u> </u>   | <u> </u> |  |   |          |              |          |
|          | 84       |          |   |  |          |  |   | L_       |              |          |
|          | 85       |          |   |  |          |  |   |          |              |          |
|          | 86       |          |   |  |          |  |   |          |              |          |
|          | 87       |          |   | _  |          | _  | - |          | _            |          |
|          |          |          |   |  | <u> </u> |  |   | _        |              | -        |
|          | 88       |          |   | _  | <u> </u> |  |   |          |              |          |
|          | 89       | <u> </u> |   | <u> </u>   |          |  |   |          |              |          |
|          | 90       |          |   |  |          |  |   |          |              |          |
|          | 91       |          |   |  |          |  |   | ,        |              |          |
|          | 92       |          |   |  |          |  |   |          |              |          |
|          | 93       |          |   |  |          |  |   |          |              |          |
|          |          | <u> </u> | <del> </del>  | <u> </u>   |          | -  |   |          |              | -        |
| -        | 94       |          | _   | <u> </u>   | _        | _  |   |          |              |          |
|          | 95       |          | $ldsymbol{ld}}}}}}$ |  |          |  |   |          |              |          |
|          | 96       |          |   |  |          |  |   |          |              |          |
|          | 97       |          |   |  |          |  |   |          |              |          |
|          | 98       |          |   | _  | _        |  |   |          | $\Box$       |          |
|          | 99       |          | <del> </del>  | <b></b> -  | _        | _  | _ |          |              |          |
|          | 400      |          |   | <u> </u>   |          | <u> </u>   |   |          |              |          |

100

|       | _:         |   |   |             |              | <u> </u>     |          |  |    |                 |
|-------|------------|---|---|-------------|--------------|--------------|----------|--|----|-----------------|
| Cla   | aim        |   |   |             | L            | Date         | <b>∋</b> |  |    |                 |
| Final | Original   |   |   |             |              |              |          |  |    |                 |
|       | 101        |   |   |             |              |              |          |  |    |                 |
|       | 102        |   |   |             |              |              |          |  |    |                 |
|       | 103        |   |   |             | <u> </u>     | <del>,</del> |          |  |    |                 |
|       | 104        |   |   |             |              | ·            | _        |  |    | $\square$       |
|       | 105        |   |   |             |              |              |          |  |    |                 |
|       | 106<br>107 |   |   |             |              |              |          |  |    | $\vdash$        |
|       | 108        |   |   |             |              | _            |          | _  |    | $\dashv$        |
|       | 109        | - |   | $\vdash$    |              |              |          |  | H  | $\dashv$        |
|       | 110        |   |   |             | _            | _            |          | _  |    | $\vdash$        |
|       | 111        |   |   |             |              |              |          |  |    | $\dashv$        |
| •     | 112        |   |   |             |              |              |          |  |    |                 |
|       | 113        |   |   |             |              |              |          |  |    |                 |
|       | 114        |   |   |             |              |              |          |  |    |                 |
|       | 115        |   |   |             |              |              |          |  |    |                 |
|       | 116        |   |   |             |              |              |          |  |    |                 |
|       | 117        |   |   |             |              |              |          |  |    |                 |
|       | 118        |   |   | _           |              |              | ļ        |  |    |                 |
|       | 119        |   |   | _           | _            | _            |          | <u> </u>   |    |                 |
|       | 120        | _ |   | _           | _            | <u> </u>     | <u> </u> | <u> </u>   | _  |                 |
|       | 121        | _ |   |             | -            | $\vdash$     | _        | $\vdash$   |    | $\vdash \vdash$ |
|       | 122<br>123 | - |   |             | <del> </del> |              |          | _  |    |                 |
|       | 124        | - | - |             |              | -            |          | -  |    |                 |
|       | 125        |   | - | <del></del> |              |              | _        | <del>                                     </del> |    | $\vdash$        |
|       | 126        |   |   |             |              |              |          | _  |    |                 |
|       | 127        |   |   |             |              |              |          |  |    |                 |
|       | 128        |   |   |             |              |              |          |  |    |                 |
|       | 129        |   |   |             |              |              |          |  |    |                 |
|       | 130        |   |   |             |              |              |          |  | 30 |                 |
|       | 131        |   |   |             |              |              |          |  |    |                 |
|       | 132        |   |   |             |              |              | <u> </u> |  |    |                 |
|       | 133        |   |   |             |              |              | <u> </u> |  |    |                 |
|       | 134        | - |   |             |              |              | _        | _  | _  | $\dashv$        |
|       | 135<br>136 |   |   |             |              |              | _        |  | _  | $\vdash \vdash$ |
|       | 137        |   |   |             |              |              |          |  |    | {               |
|       | 138        |   |   |             |              |              |          |  |    | $\dashv$        |
|       | 139        |   |   |             |              |              |          |  |    | $\dashv$        |
|       | 140        |   |   |             |              |              |          |  |    | $\square$       |
|       | 141        |   |   |             |              |              |          |  |    |                 |
|       | 142        |   |   |             |              |              |          |  |    |                 |
|       | 143        |   |   |             |              |              |          |  |    |                 |
| _     | 144        |   |   |             |              |              |          |  |    |                 |
|       | 145        |   | _ |             |              |              |          |  |    | $\square$       |
|       | 146        |   |   |             |              |              |          | <u> </u>   |    | $\square$       |
|       | 147        |   |   |             |              |              | -        |  |    | $\square$       |
|       | 148<br>149 |   |   |             |              |              |          | _  |    | $\dashv$        |
|       | 150        |   |   |             |              |              | -        |  | -  | $\vdash$        |
|       | IOU        |   |   |             |              |              |          | <u> </u>   |    |                 |

50